JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS

Volume 122, Numbers 1–2, 1 October 2000

Contents

C. Brezinski
Preface: Numerical Analysis 2000. Vol. II: Interpolation and extrapolation ix

C. Brezinski
Convergence acceleration during the 20th century 1

M. Gasca and T. Sauer
On the history of multivariate polynomial interpolation 23

M. Gasca and G. Mühlbach
Elimination techniques: from extrapolation to totally positive matrices and CAGD 37

P.R. Graves-Morris, D.E. Roberts and A. Salam
The epsilon algorithm and related topics 51

H.H.H. Homeier
Scalar Levin-type sequence transformations 81

K. Jbilou and H. Sadok
Vector extrapolation methods. Applications and numerical comparison 149

R.A. Lorentz
Multivariate Hermite interpolation by algebraic polynomials: A survey 167

G. Mühlbach
Interpolation by Cauchy–Vandermonde systems and applications 203

N. Osada
The *E*-algorithm and the Ford–Sidi algorithm 223

M. Prévost
Diophantine approximations using Padé approximations 231

A. Sidi
The generalized Richardson extrapolation process GREP$^{(1)}$ and computation of derivatives of limits of sequences with applications to the $d^{(1)}$-transformation 251

V. Sorokin and J. Van Iseghem
Matrix Hermite–Padé problem and dynamical systems 275

T. Strohmer
Numerical analysis of the non-uniform sampling problem 297

G. Walz
Asymptotic expansions for multivariate polynomial approximation 317

E.J. Weniger
Prediction properties of Aitken's iterated Δ^2 process, of Wynn's epsilon algorithm, and of Brezinski's iterated theta algorithm 329

Author Index Volume 122 357